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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171

7590

12/18/2009

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 EXAMINER

KARMIS, STEFANOS

ART UNIT PAPER NUMBER

3693

DATE MAILED: 12/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,842	01/24/2001	Toshiyuki Waida	1081.1104/DSG	3353

TITLE OF INVENTION: PAYMENT FORM DISCRIMINATION METHOD AND APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

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			pape have	ers. Each additional its own certificate	paper, such as an assignme of mailing or transmission.	ent or formal drawing, must	
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SUITE 700 1201 NEW YO	RK AVENUE, N.W		I hereby certify that this Fee(s) Transmittal is being deposited with the Unite States Postal Service with sufficient postage for first class mail in an envelop addressed to the Mail Stop ISSUE FEE address above, or being facsimit transmitted to the USPTO (571) 273-2885, on the date indicated below.				
WASHINGTON		•	Trans.	sinited to the CSI I	O (371) 273 2003, On the C	(Depositor's name)	
			-			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/767,842	01/24/2001	•	Toshiyuki Waida	· ·	1081.1104/DSG	3353	
TITLE OF INVENTION	N: PAYMENT FORM DI	SCRIMINATION METH	IOD AND APPARATUS				
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/18/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
KARMIS, S	STEFANOS	3693	705-040000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the patent front page, list				
	oondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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	02 or more recent) attach		2 registered patent attor listed, no name will be	rneys or agents. If n	o name is 3		
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PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assigne	e is identified below, the d	locument has been filed for	
(A) NAME OF ASSI	•	pletion of this form is NO	T a substitute for filing an a (B) RESIDENCE: (CITY	ě .	MINTRY)		
(A) WHILL OF ABBI	GNEL		(b) RESIDENCE. (CIT I	and STATE OR CO	JONIKI)		
Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Cor	poration or other private gr	oup entity 🖵 Government	
4a. The following fee(s)	are submitted:	41	o. Payment of Fee(s): (Plea	se first reapply any	y previously paid issue fee	shown above)	
Issue Fee			A check is enclosed.				
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5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lone	ran alaimina SMALI	L ENTITY status. See 37 C	ED 1.27(~)(2)	
• •						he assignee or other party in	
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.				
Authorized Signature				Date			
Typed or printed name			Registration No				
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or r	etain a benefit by th	e public which is to file (an	d by the USPTO to process)	
an application. Confiden submitting the complete	ntiality is governed by 35 d application form to the	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is est depending upon the indiv	imated to take 12 m idual case. Any con	unutes to complete, includir nments on the amount of ti	ng gathering, preparing, and me you require to complete artment of Commerce, P.O.	
Box 1450, Alexandria, V	/irginia 22313-1450. DC	ruen, snould be sent to th DNOT SEND FEES OR (e Chief information Office COMPLETED FORMS TO	r, ∪.S. Patent and T D THIS ADDRESS.	SEND TO: Commissioner	for Patents, P.O. Box 1450,	
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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/767,842 01/24/2001		Toshiyuki Waida	1081.1104/DSG	3353	
21171 7.	590 12/18/2009		EXAM	INER	
STAAS & HALSEY LLP SUITE 700			KARMIS, STEFANOS		
			ART UNIT	PAPER NUMBER	
	AVENUE, N.W.		ART UNIT 3693	PAPER NUMBER	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 834 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 834 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	09/767,842	WAIDA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	STEFANOS KARMIS	3693			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS			
1. This communication is responsive to <u>Amendment filed 28 Amendment f</u>	<u>August 2009</u> .				
2. The allowed claim(s) is/are <u>1, 4, 6, 9, and 11-15</u> .					
 Acknowledgment is made of a claim for foreign priority ur a)	nder 35 U.S.C. § 119(a)-(d) or (f).				
 Certified copies of the priority documents have 	e been received.				
Certified copies of the priority documents have	been received in Application No	·			
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
(a) ☐ including changes required by the Notice of Diantsperson's Patent Diawing Review (P10-946) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
, — , — . — —		Office action of			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal I	Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary				
	Paper No./Mail Da	ate .			
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amend	ment/Comment			
Paper No./Mail Date 4.	8. ⊠ Examiner's Statem	ent of Reasons for Allowance			
•	9. Other				
/Stefanos Karmis/					
Primary Examiner, Art Unit 3693					

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EXAMINER'S AMENDMENT

1. The following communication is in response to the Amendment filed 28 August 2009 and

to the examiner's amendment authorized on 02 December 2009.

2. Claims 1, 4, 6, 9, and 11-15 are allowed.

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Luminita A. Todor, PhD on 02 December 2009.

The application has been amended as follows:

Please amend claim 6 as follows:

6. (Currently Amended) A payment form discrimination apparatus for recognizing a form

which states a payee account number and a payment amount, comprising:

an image reader acquiring an image data of the form by optically reading the form;

a processing unit, which performs searching for the payee account number in the image

data at an unknown position in accordance with an account number searching rule, discriminates

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Art Unit: 3693

a type of form corresponding to said payee account number from a document information table that stores account numbers correlated with types of the form, and recovers other data from locations according to the determined type of the form;

wherein said processing unit searches for hyphens in the image data, determines at least one location of a specified hyphen arrangement formed by at least one group among the hyphens, character-recognizes the image data in areas surrounding the at least one location of the specified hyphen arrangement, determines the account number based on the character recognition and matches the account number with account numbers registered in said document information table, the matched account number being the payee account number.

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Please amend the abstract as follows:

A method for identifying payment forms accurately identifies types of forms without adding special form identification data. A payment form discrimination method for discriminating payment forms which state a payee account number and a payment amount includes a step of acquiring an image of the form, a step of making a search for the payee account number in the image in accordance with an account number searching rule, and a step of discriminating the type of form based on the searched payee account number. Types of forms can be identified accurately and fast without adding special form identification data, because the form identification is performed using easily searchable account numbers.

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Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The closest prior art, Krouse et al. U.S. Patent 6,097,834 teaches a transaction processing system which includes generating an optically scanned image of at least a portion of a document containing visual data, recognizing characteristics from the scanned image and comparing sets of reference recognition characteristics (column 12, lines 38-62). Krouse further teaches that the recognition teachings can be used to search for a payee account number in the image (column 12, lines 63 thru column 13, line 11 and column 14, lines 17 thru column 15, line 10 and column 18, lines 31-34).

Another close prior art, Kolling, et al. (hereinafter Kolling) U.S. Patent 6,385,595 teaches the use of OCR on scanned images to acquire the necessary information to present the billing information (column 10, lines 10-34). Kolling further teaches a universal biller file which is a database of biller information and includes a record for each biller in the system (column 14, lines 42-49). Kolling teaches that biller information includes information including information describing the biller company name, address, telephone and contains information that identifies the formats for a customer biller account number that the biller accepts from the customer (column 14, lines 50-67). The account numbers have particular formats including hyphens which recognize the account number as being acceptable (column 14, lines 50-67).

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Regarding claim 1, the prior art fails to teach or suggest a payment form discrimination method that searches by a computer for a payee account number in an image at an unknown position by searching for hyphens in the image data; determining at least one location of a specified hyphen arrangement formed by at least one group among the hyphens detected by said search, character-recognizing the image data in areas surrounding the at least one location of the specified hyphen arrangement; and determining an account number based on the character recognition and matching the account number with account numbers registered in a document information table, the matched account numbers being the payee account number. For this reason, independent claim 1 is deemed allowable over the prior art. Independent claims 6 and 15 are allowed for similar reasons. Claims 4, 9, and 11-14 are allowed based on their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEFANOS KARMIS whose telephone number is (571)272-6744. The examiner can normally be reached on M-F: 8-5.

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Art Unit: 3693

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Kramer can be reached on (571) 272-6783. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Respectfully Submitted /Stefanos Karmis/ Primary Examiner, Art Unit 3693 17 December 2009